

FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

KCC-14,833

09/855,189

LIST OF PRIOR ART CITED BY APPLICANT
(Use additional sheets if necessary)

APPLICANT

Raymond Jeffrey MAY et al.

FILING DATE

14 May 2001

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EC	AA	3,338,992	08/1967	Kinney	264	24	
	AB	3,341,394	09/1967	Kinney	161	72	
	AC	3,502,538	03/1970	Petersen	161	150	
	AD	3,502,763	03/1970	Hartmann	264	210	
	AE	3,542,615	11/1970	Dobo et al.	156	181	
	AF	3,692,618	09/1972	Dorschner et al.	161	72	
	AG	3,802,817	04/1974	Matsuki et al.	425	66	
	AH	3,849,241	11/1974	Butin et al.	161	169	
	AI	4,340,563	07/1982	Appel et al.	264	518	
	AJ	5,204,429	04/1993	Kaminsky et al.	526	308	
EC	AK	5,272,236	12/1993	Lai et al.	526	348.5	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
EC	AL	239 080 A2	09/1987	EPO	D01F	6/30		
	AM	37 34 963 A1	04/1988	Germany	C08L	21/00		
	AN	90/03464	04/1990	PCT	D04H	1/56		
	AO	380 781 A2	08/1990	EPO (Abstract)	B05C	5/02		
EC	AP	3-67646	03/1991	Japan	B32B	5/28		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EC	AR	Cellular Materials to Composites, Encyclopedia of Polymer Science and Engineering, Vol. 3, pages 299-300, (1985), John Wiley & Sons.
	AS	
	AT	

EXAMINER

DATE CONSIDERED

E. Light M. Cole

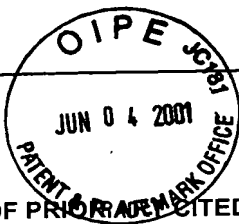
9/23/02

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KCC-1087

USCOMM-DC 80-3985

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EC	AA	5,278,272	01/1994	Lai et al.	526	348.5	
	AB	5,385,775	01/1995	Wright	428	284	
	AC	5,882,573	03/1999	Kwok et al.	264	510	
	AD	5,902,540	05/1999	Kwok	264	555	
	AE	5,904,298	05/1999	Kwok et al.	239	135	
	AF	2,206,761	07/1940	Bergstein	93	6	
	AG	2,266,761	12/1941	Jackson, Jr. et al.	154	46	
	AH	2,357,392	09/1944	Francis, Jr.	18	47.5	
	AI	2,464,301	03/1949	Francis, Jr.	154	46	
	AJ	2,483,405	10/1949	Francis, Jr.	154	54	
EC	AK	2,957,512	10/1960	Wade et al.	154	33.05	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
EC	AL	456 885 B1	11/1991	EPO	A61F	13/15		
	AM	92891	02/1992	Israel				
	AN	92/16371	10/1992	PCT	B32B	31/00		
	AO	547 497 A2	06/1993	EPO	A61F	13/15		
EC	AP	93/15247	08/1993	PCT	D04H	1/48		

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QC	AA	2,957,852	10/1960	Frankenburg et al.	260	75	
	AB	3,186,893	06/1965	Mercer	161	60	
	AC	3,371,668	03/1968	Johnson	128	290	
	AD	3,391,048	07/1968	Dyer et al.	161	58	
	AE	3,439,085	04/1969	Hartmann	264	210	
	AF	3,449,187	06/1969	Bobkowicz	156	161	
	AG	3,468,748	09/1969	Bassett	161	122	
	AH	3,575,782	04/1971	Hansen	161	141	
	AI	3,616,129	10/1971	Sager	161	57	
	AJ	3,629,047	12/1971	Davison	161	57	
QC	AK	3,669,823	06/1972	Wood	161	141	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
QC	AL	93/17648	09/1993	PCT	A61F	13/15		
	AM	570 980 A1	11/1993	EPO	A61F	13/15		
	AN	2 244 422 B	3/1994	GB	A61F	13/15		
	AO	94/09736	05/1994	PCT	A61F	13/15		
QC	AP	604 731 A1	07/1994	EPO	B32B	31/00		

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Eingelseth M Cole

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EE	AA	3,673,026	06/1972	Brown	156	164	
	AB	3,676,242	07/1972	Prentice	156	62.4	
	AC	3,689,342	09/1972	Vogt et al.	156	167	
	AD	3,752,613	08/1973	Vogt et al.	425	80	
	AE	3,773,590	11/1973	Morgan	156	244	
	AF	3,806,289	04/1974	Schwarz	425	72	
	AG	3,836,416	09/1974	Ropiequet	161	2	
	AH	3,890,184	06/1975	Morgan	156	244	
	AI	3,912,567	10/1975	Schwartz	156	167	
EE	AJ	3,917,448	11/1975	Wood	8	125	
	AK	3,949,130	04/1976	Sabee et al.	428	192	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
EE	AL	617 939 A2	10/1994	EPO (Abstract)	A61F	13/15		
	AM	2 253 131 B	10/1994	GB	A61F	13/72		
	AN	95/03443	02/1995	PCT	D04H	13/00		
	AO	95/04182	02/1995	PCT	D04H	13/00		
EE	AP	2 250 921 B	06/1995	GB	A61F	13/15		

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EC	AA	3,978,185	08/1976	Buntin et al.	264	93	
	AB	4,013,816	03/1977	Sabee et al.	428	288	
	AC	4,090,385	05/1978	Packard	72	191	
	AD	4,107,364	08/1978	Sisson	428	196	
	AE	4,148,676	04/1979	Paquette et al.	156	181	
	AF	4,209,563	06/1980	Sisson	428	288	
	AG	4,211,807	07/1980	Yazawa et al.	428	109	
	AH	4,239,578	12/1980	Gore	156	361	
	AI	4,241,123	12/1980	Shih	428	105	
EC	AJ	4,259,220	03/1981	Bunnelle et al.	260	27 BB	
	AK	4,302,495	11/1981	Marra	428	110	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
EC	AL	95/16562	06/1995	PCT	B32B	5/24		
	AM	95/34264	12/1995	PCT	A61F	13/15		
	AN	2 268 389 B	07/1996	GB	A61F	13/15		
	AO	96/23466	08/1996	PCT	A61F	13/15		
EC	AP	743 052 A2	11/1996	EPO	A61F	13/15		

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Elizabeth M Cole

9/23/02

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U.S. PATENT DOCUMENTS

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EL	AA	4,303,571	12/1981	Jansen et al.	260	33.6 AQ	
	AB	4,304,234	12/1981	Hartmann	128	287	
	AC	4,310,594	01/1982	Yamazaki et al.	428	296	
	AD	4,319,572	03/1982	Widlund et al.	128	284	
	AE	4,323,534	04/1982	DesMarais	264		
	AF	4,333,782	06/1982	Pieniak	156	176 R	
	AG	4,375,446	03/1983	Fujii et al.	264	518	
	AH	4,405,397	09/1983	Teed	156	164	
	AI	4,413,623	11/1983	Pieniak	604	365	
	AJ	4,417,935	11/1983	Spencer	156	80	
EL	AK	4,418,123	11/1983	Bunnelle et al.	428	517	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
EL	AL	96/35402	11/1996	PCT	A61F	13/15		
	AM	753 292 A2	01/1997	EPO	A61F	13/15		
	AN	761 193 A2	03/1997	EPO	A61F	13/15		
	AO	761 194 A2	03/1997	EPO	A61F	13/15		
EL	AP	713 546 B1	03/1997	EPO	D04H	13/00		

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QC	AA	4,440,819	04/1984	Rosser et al.	428	107	
	AB	4,490,427	12/1984	Grant et al.	428	107	
	AC	4,496,417	01/1985	Haake et al.	156	361	
	AD	4,507,163	03/1985	Menard	156	164	
	AE	4,525,407	06/1985	Ness	428	138	
	AF	4,543,099	09/1985	Bunnelle et al.	604	385 A	
	AG	4,548,859	10/1985	Kline et al.	428	251	
	AH	4,552,795	11/1985	Hansen et al.	428	110	
	AI	4,555,811	12/1985	Shimalla	2	51	
	AJ	4,572,752	02/1986	Jensen et al.	156	64	
QU	AK	4,586,199	05/1986	Birring	2	401	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
al	AL	763 353 A2	03/1997	EPO	A61F	13/15		
	AM	787 474 A1	08/1997	EPO	A61F	13/15		
	AN	806 196 A2	11/1997	EPO	A61F	13/15		
	AO	814 189 A1	12/1997	EPO	D04H	13/00		
al	AP	98/14156	04/1998	PCT	A61F	13/15		

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EC	AA	4,606,964	08/1986	Wideman	428	152	
	AB	4,626,305	12/1986	Suzuki et al.	156	164	
	AC	4,636,419	01/1987	Madsen et al.	428	131	
	AD	4,640,859	02/1987	Hansen et al.	428	105	
	AE	4,652,487	03/1987	Morman	428	138	
	AF	4,656,081	04/1987	Ando et al.	428	233	
	AG	4,657,793	04/1987	Fisher	428	36	
	AH	4,657,802	04/1987	Morman	428	152	
	AI	4,663,220	05/1987	Wisneski et al.	428	221	
	AJ	4,666,542	05/1987	De Jonckheere	156	164	
EC	AK	4,675,068	06/1987	Lundmark	156	495	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
EC	AL	582 569 B1	06/1998	EPO	B32B	5/26		
	AM	98/55062	12/1998	PCT	A61F	13/15		
	AN	99/17926	04/1999	PCT	B32B	5/04		
	AO	99/60970	12/1999	PCT	A61F	13/15		
EC	AP	00/37003	06/2000	PCT	A61F	13/15		

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EL	AA	4,683,877	08/1987	Ersfeld et al.	128	90	
	AB	4,687,477	08/1987	Suzuki et al.	604	385 A	
	AC	4,692,368	09/1987	Taylor et al.	428	137	
	AD	4,692,371	09/1987	Morman et al.	428	224	
	AE	4,704,116	11/1987	Enloe	604	385 A	
	AF	4,718,901	01/1988	Singheimer	604	385 A	
	AG	4,719,261	01/1988	Bunnelle et al.	525	97	
	AH	4,720,415	01/1988	Vander Wielen et al.	428	152	
	AI	4,725,468	02/1988	McIntyre	428	40	
	AJ	4,726,874	02/1988	Van Vliet	156	495	
al	AK	4,734,311	03/1988	Sokolowski	428	152	

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EL	AL	99/60969	12/1999	PCT	A61F	13/15		
	AM	99/60971	12/1999	PCT	A61F	13/15		
	AN	00/37005	06/2000	PCT	A61F	13/15		
	AO	1 013 251 A1	06/2000	EPO	A61F	13/15		
EL	AP	547 497 B2	07/2000	EPO	A61F	13/15		

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GC	AA	4,734,320	03/1988	Ohira et al.	428	231	
	AB	4,735,673	04/1988	Piron	156	496	
	AC	4,756,942	07/1988	Aichele	428	102	
	AD	4,761,198	08/1988	Salerno	156	334	
	AE	4,762,582	08/1988	de Jonckheere	156	164	
	AF	4,775,579	10/1988	Hagy et al.	428	284	
	AG	4,777,080	10/1988	Harris, Jr. et al.	428	212	
	AH	4,789,699	12/1988	Kieffer et al.	524	271	
	AI	4,801,345	01/1989	Dussaud et al.	156	164	
	AJ	4,801,482	01/1989	Goggans et al.	428	68	
GV	AK	4,803,117	02/1989	Daponte	428	228	

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92	AA	4,804,577	02/1989	Hazelton et al.	428	224	
	AB	4,826,415	05/1989	Mende	425	722	
	AC	4,842,666	06/1989	Werenicz	156	161	
	AD	4,854,985	08/1989	Soderlund et al.	156	85	
	AE	4,854,989	08/1989	Singheimer	156	161	
	AF	4,863,779	09/1989	Daponte	428	152	
	AG	4,874,447	10/1989	Hazelton et al.	156	167	
	AH	4,883,482	11/1989	Gandrez et al.	604	385.2	
	AI	4,883,549	11/1989	Frost et al.	156	161	
	AJ	4,891,258	01/1990	Fahrenkrug	428	138	
92	AK	4,892,536	01/1990	DesMarais et al.	604	385.2	

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9e	AA	4,892,903	01/1990	Himes	524	488	
	AB	4,900,619	02/1990	Ostrowski et al.	428	284	
	AC	4,906,507	03/1990	Grynaeus et al.	428	113	
	AD	4,908,247	03/1990	Baird et al.	428	34.9	
	AE	4,910,064	03/1990	Sabee	428	113	
	AF	4,917,696	04/1990	De Jonckheere	604	385.2	
	AG	4,917,746	04/1990	Kons et al.	156	164	
	AH	4,929,492	05/1990	Carey, Jr. et al.	428	198	
	AI	4,938,821	07/1990	Soderlund et al.	156	85	
	AJ	4,965,122	10/1990	Morman	428	225	
9e	AK	4,968,313	11/1990	Sabee	604	385.2	

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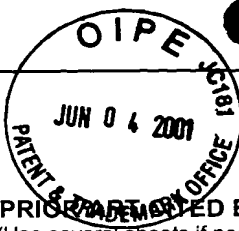
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
gl	AA	4,970,259	11/1990	Mitchell et al.	524	505	
	AB	4,977,011	12/1990	Smith	428	152	
	AC	4,984,584	01/1991	Hansen et al.	128	898	
	AD	4,995,928	02/1991	Sabee	156	164	
	AE	4,998,929	03/1991	Björksund et al.	604	385.2	
	AF	5,000,806	03/1991	Merkatoris et al.	156	161	
	AG	5,002,815	03/1991	Yamanaka et al.	428	109	
	AH	5,060,349	10/1991	Walton et al.	26	18.6	
	AI	5,073,436	12/1991	Antonacci et al.	428	219	
	AJ	5,093,422	03/1992	Himes	525	98	
	AK	5,100,435	03/1992	Onwumere	8	115.55	

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cel	AA	5,114,087	05/1992	Fisher et al.	242	42	
	AB	5,147,487	09/1992	Nomura et al.	156	164	
	AC	5,169,706	12/1992	Collier, IV et al.	428	152	
	AD	5,169,712	12/1992	Tapp	428	315.5	
	AE	5,186,779	02/1993	Tubbs	156	161	
	AF	5,198,281	03/1993	Muzzy et al.	428	102	
	AG	5,200,246	04/1993	Sabee	428	109	
	AH	5,209,801	05/1993	Smith	156	161	
	AI	5,219,633	06/1993	Sabee	428	109	
	AJ	5,226,992	07/1993	Morman	156	62.4	
cl	AK	5,229,191	07/1993	Austin	428	198	

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RL	AA	5,232,777	08/1993	Sipinen et al.	428	364	
	AB	5,236,430	08/1993	Bridges	604	396	
	AC	5,236,770	08/1993	Assent et al.	428	198	
	AD	5,238,733	08/1993	Joseph et al.	428	284	
	AE	5,246,433	09/1993	Hasse et al.	604	396	
	AF	5,259,902	11/1993	Muckenfuhs	156	164	
	AG	5,260,126	11/1993	Collier, IV et al.	428	288	
	AH	5,288,791	02/1994	Collier, IV et al.	524	505	
	AI	5,296,080	03/1994	Merkatoris et al.	156	496	
	AJ	5,304,599	04/1994	Himes	525	98	
	AK	5,308,345	05/1994	Herrin	604	385.2	

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QC	AA	5,312,500	05/1994	Kurihara et al.	156	62.4	
	AB	5,324,580	06/1994	Allan et al.	428	284	
	AC	5,332,613	07/1994	Taylor et al.	428	152	
	AD	5,334,437	08/1994	Zafiroglu	428	219	
	AE	5,334,446	08/1994	Quantrille et al.	428	284	
	AF	5,336,545	08/1994	Morman	428	152	
	AG	5,342,469	08/1994	Bodford et al.	156	244.22	
	AH	5,360,854	11/1994	Bozich, Jr.	524	274	
	AI	5,366,793	11/1994	Fitts, Jr., et al.	428	198	
	AJ	5,376,198	12/1994	Fahrenkrug et al.	156	164	
QC	AK	5,385,775	01/1995	Wright	428	284	

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ge	AA	5,389,173	02/1995	Merkatoris et al.	156	164	
	AB	5,393,599	02/1995	Quantrille et al.	428	284	
	AC	5,405,682	04/1995	Shawyer et al.	428	221	
	AD	5,407,507	04/1995	Ball	156	163	
	AE	5,411,618	05/1995	Jocewicz, Jr.	156	164	
	AF	5,413,654	05/1995	Igaue et al.	156	161	
	AG	5,413,849	05/1995	Austin et al.	428	293	
	AH	5,415,649	05/1995	Watanabe et al.	604	385.2	
	AI	5,415,925	05/1995	Austin et al.	428	287	
	AJ	5,425,987	06/1995	Shawver et al.	428	284	
	AK	5,429,694	07/1995	Herrmann	156	164	

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ge	AA	5,431,644	07/1995	Sipinen et al.	604	385.2	
	AB	5,431,991	07/1995	Quantrille et al.	428	109	
	AC	5,447,462	09/1995	Smith et al.	450	122	
	AD	5,447,508	09/1995	Numano et al.	604	385.2	
	AE	5,449,353	09/1995	Watanabe et al.	604	385.2	
	AF	5,464,401	11/1995	Hasse et al.	604	385.1	
	AG	5,472,775	12/1995	Obijeski et al.	428	220	
	AH	5,476,563	12/1995	Nakata	156	167	
	AI	5,484,645	01/1996	Lickfield et al.	428	198	
ge	AJ	5,498,468	03/1996	Blaney	428	198	
	AK	5,500,075	03/1996	Herrmann	156	494	

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92	AA	5,514,470	05/1996	Haffner et al.	428	246	
	AB	5,516,476	05/1996	Haggard et al.	264	211	
	AC	5,523,146	06/1996	Bodford et al.	428	198	
	AD	5,531,850	07/1996	Herrmann	156	161	
	AE	5,534,330	07/1996	Groshens	428	198	
	AF	5,540,976	07/1996	Shawver et al.	428	198	
	AG	5,545,158	08/1996	Jessup	604	385.2	
	AH	5,545,285	08/1998	Johnson	156	496	
	AI	5,549,964	08/1996	Shohji et al.	428	224	
	AJ	5,569,232	10/1996	Roe et al.	604	385.2	
92	AK	5,575,783	11/1996	Clear et al.	604	385.1	

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EL	AA	5,576,090	11/1996	Suzuki	428	152	
	AB	5,582,668	12/1996	Kling	156	161	
	AC	5,591,152	01/1997	Buell et al.	604	385.2	
	AD	5,597,430	01/1997	Rasche	156	161	
	AE	5,624,740	04/1997	Nakata	428	204	
	AF	5,626,573	05/1997	Igaue et al.	604	385.1	
	AG	5,628,856	05/1997	Dobrin et al.	156	244.18	
	AH	5,645,672	07/1997	Dobrin	156	244.18	
	AI	5,652,041	07/1997	Buerger et al.	428	198	
	AJ	5,660,664	08/1997	Herrmann	156	161	
AL	AK	5,669,897	09/1997	Lavon et al.	604	385.2	

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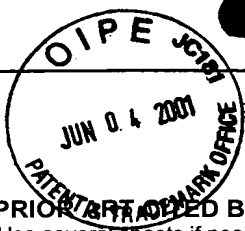
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92	AA	5,681,302	10/1997	Melbye et al.	604	373	
	AB	5,683,787	11/1997	Boich et al.	428	198	
	AC	5,690,626	11/1997	Suzuki et al.	604	385.2	
	AD	5,693,038	12/1997	Suzuki et al.	604	385.2	
	AE	5,695,849	12/1997	Shawver et al.	428	131	
	AF	5,709,921	01/1998	Shawver	428	152	
	AG	5,720,838	02/1998	Nakata	156	167	
	AH	5,733,635	03/1998	Terakawa et al.	428	198	
	AI	5,733,822	03/1998	Gessner et al.	442	35	
	AJ	5,735,839	04/1998	Kawaguchi et al.	604	385.2	
92	AK	5,736,219	04/1998	Suehr et al.	428	113	

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Elizabeth M. Moe

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al	AA	5,746,731	05/1998	Hisada	604	385.2	
	AB	5,749,865	05/1998	Yamamoto et al.	604	385.2	
	AC	5,749,866	05/1998	Roe et al.	604	385.2	
	AD	5,766,737	06/1998	Willey et al.	428	198	
	AE	5,769,838	06/1998	Buell et al.	604	396	
	AF	5,769,993	06/1998	Baldauf	156	164	
	AG	5,772,649	06/1998	Siudzinski	604	386	
	AH	5,773,373	06/1998	Wynne et al.	442	260	
	AI	5,773,374	06/1998	Wood et al.	442	328	
	AJ	5,788,804	08/1998	Hörsting	156	440	
	AK	5,789,065	08/1998	Haffner et al.	428	152	

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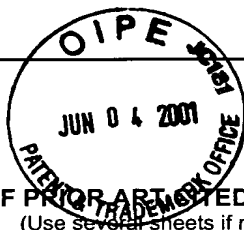
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GL	AA	5,789,328	08/1998	Kurihara et al.	442	387	
	AB	5,814,176	09/1998	Proulx	156	167	
	AC	5,817,087	10/1998	Takabayashi et al.	604	385.2	
	AD	5,830,203	11/1998	Suzuki et al.	604	385.2	
	AE	5,834,089	11/1998	Jones et al.	428	97	
	AF	5,836,931	11/1998	Toyoda et al.	604	385.2	
	AG	5,836,932	11/1998	Buell et al.	604	396	
	AH	5,876,392	03/1999	Hisada	604	385.2	
	AI	5,879,776	03/1999	Nakata	428	92	
	AJ	5,885,686	03/1999	Cederblad et al.	428	107	
GL	AK	5,897,546	04/1999	Kido et al.	604	391	

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EF	AA	5,899,895	05/1999	Robles et al.	604	385.2	
	AB	5,916,206	06//1999	Otsubo et al.	604	385.2	
	AC	5,941,865	08/1999	Otsubo et al.	604	385.2	
	AD	5,952,252	09/1999	Shawver et al.	442	407	
	AE	5,964,970	10/1999	Woolwine et al.	156	64	
	AF	5,997,521	12/1999	Robles et al.	604	385.2	
	AG	6,004,306	12/1999	Robles et al.	604	385.1	
	AH	6,033,502	03/2000	Coenen et al.	156	64	
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	AK	Des. 284,036	06/1986	Birring	D2	10	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	AL							
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EC	AA	Des. 331,627	12/1992	Igaue et al.	D24	126	
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	AC	Des. 340,283	10/1993	Igaue et al.	D24	126	
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	AE						
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